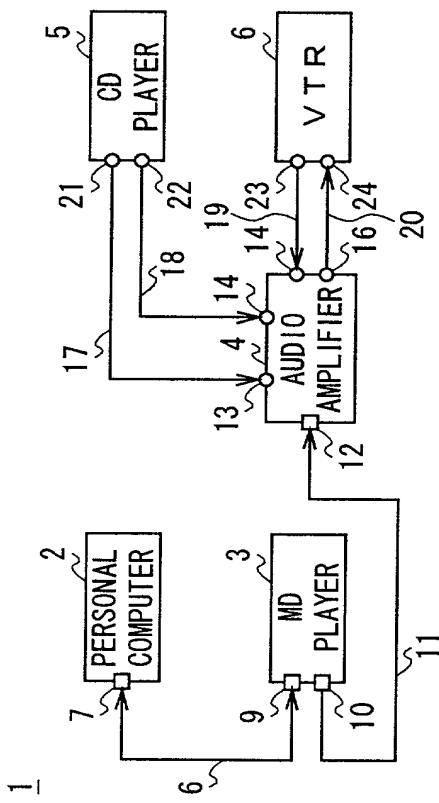


FIG. 1



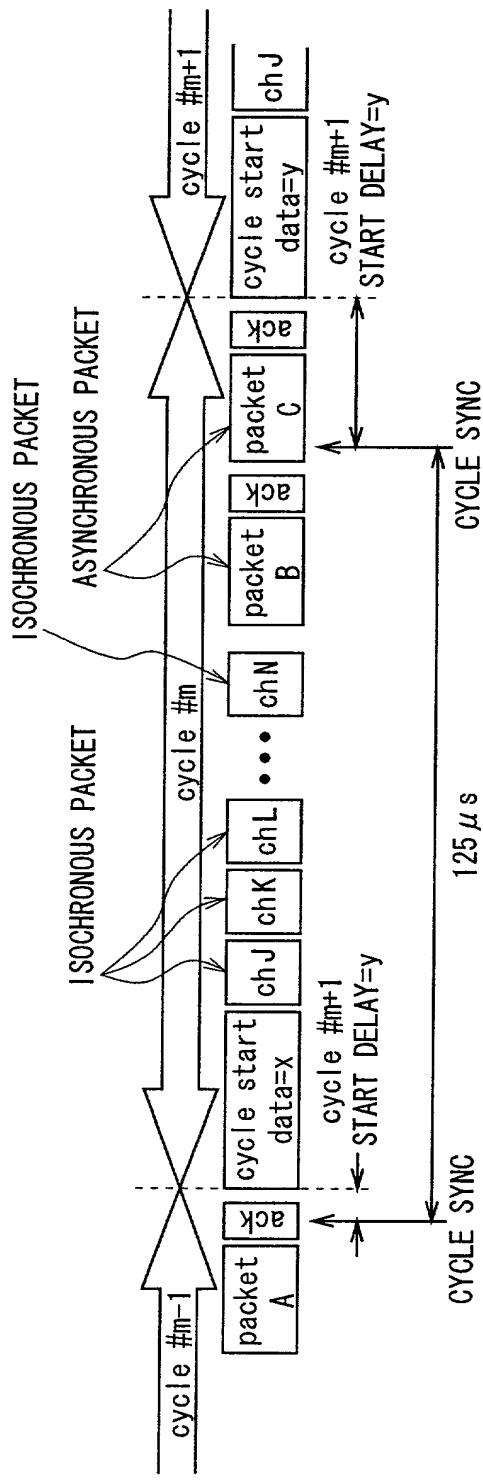
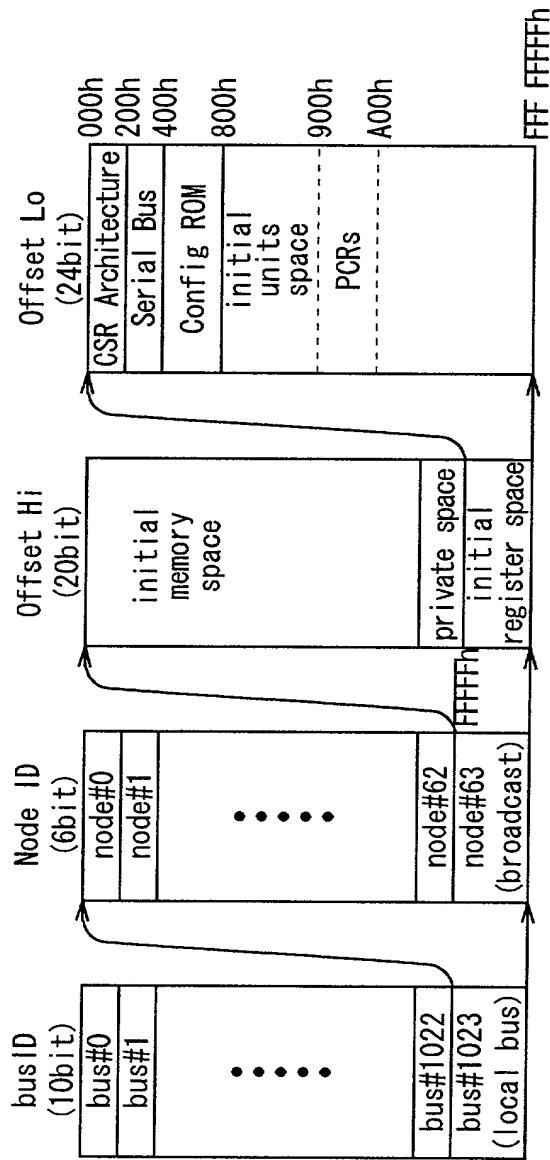


FIG. 2

FIG. 3



000h STATE\_CLEAR CONDITION AND CONTROL INFORMATION  
004h STATE\_SET SET STATE-CLEAR BIT  
008h NODE\_IDS SHOW 16-BIT NODE ID  
00Ch RESET\_START START COMMAND RESET  
018h-01Ch SPLIT\_TIMEOUT MEASURE THE MAXIMUM TIME OF SPLIT  
200h CYCLE\_TIME CYCLE TIME  
210h BUSY\_TIMEOUT DEFINE RETRY CONTROL  
21Ch BUS\_MANAGER SHOW ID OF BUS MANAGER  
220h BANDWIDTH\_AVAILABLE SHOW BANDWIDTH AVAILABLE TO ISOCRONOUS COMMUNICATIONS  
224h-228h CHANNELS\_AVAILABLE SHOW USAGE CONDITION OF EACH CHANNELPAGE

OFFSET	NAME	OPERATION
000h	STATE_CLEAR	CONDITION AND CONTROL INFORMATION
004h	STATE_SET	SET STATE-CLEAR BIT
008h	NODE_IDS	SHOW 16-BIT NODE ID
00Ch	RESET_START	START COMMAND RESET
018h-01Ch	SPLIT_TIMEOUT	MEASURE THE MAXIMUM TIME OF SPLIT
200h	CYCLE_TIME	CYCLE TIME
210h	BUSY_TIMEOUT	DEFINE RETRY CONTROL
21Ch	BUS_MANAGER	SHOW ID OF BUS MANAGER
220h	BANDWIDTH_AVAILABLE	SHOW BANDWIDTH AVAILABLE TO ISOCRONOUS COMMUNICATIONS
224h-228h	CHANNELS_AVAILABLE	SHOW USAGE CONDITION OF EACH CHANNELPAGE

FIG. 4

info length

info_length	crc_length	rom_crc_value
		bus_info_block
		root_directory
		unit_directories
		root & unit leaves
		vendor_dependent_information

FIG. 5

400h	04h	crc_length	rom_crc_value
bus_info_block			
404h	"1394"		
408h	irmc cmc isc bmc reserved	crc_clk_acc	max_rec reserved
40Ch	Company_ID		Chip_ID_hi
410h	Chip_ID_lo		
Root_directory			
414h	root_length		CRC
418h	03h	module_vender_id	
41Ch	0ch	node_capabilities	
420h	8Dh	node_unique_id_offset	
428h	D1h	unit_directory_offset	
• •		Optional.	
Unit_directory			
	unit_directory_length	CRC	
	12h	unit_spec_id	
	13h	unit_sw_version	
		Optional.	

FIG. 6

900h	Output Master Plug Register
904h	Output Plug Control Register #0
908h	Output Plug Control Register #1
•	•
•	•
97Ch	Output Plug Control Register #30
980h	Input Master Plug Register
984h	Input Plug Control Register #0
988h	Input Plug Control Register #1
•	•
•	•
9FCh	Input Plug Control Register #30

FIG. 7

FIG. 8A

$\text{oMPR}$	data rate capacity	broadcast channel base	non-persistent extension field	persistent extension field	reserved	number of output plugs	(bit)
2	6	6	6	6	3	5	

FIG. 8B

$\text{oPCR}[n]$	on-time	broadcast connection counter	point-to-point connection counter	reserved	channel number	data rate	overhead ID	payload	(bit)
1	1	6	2	2	6	2	4	10	

FIG. 8C

$\text{iMPR}$	data rate capacity	reserved	non-persistent extension field	persistent extension field	reserved	number of output plugs	(bit)
2	6	6	6	6	6	3	

FIG. 8D

$\text{iPCR}[n]$	on-time	broadcast connection counter	point-to-point connection counter	reserved	channel number	reserved	(bit)
1	1	1	6	2	6	16	

FIG. 9

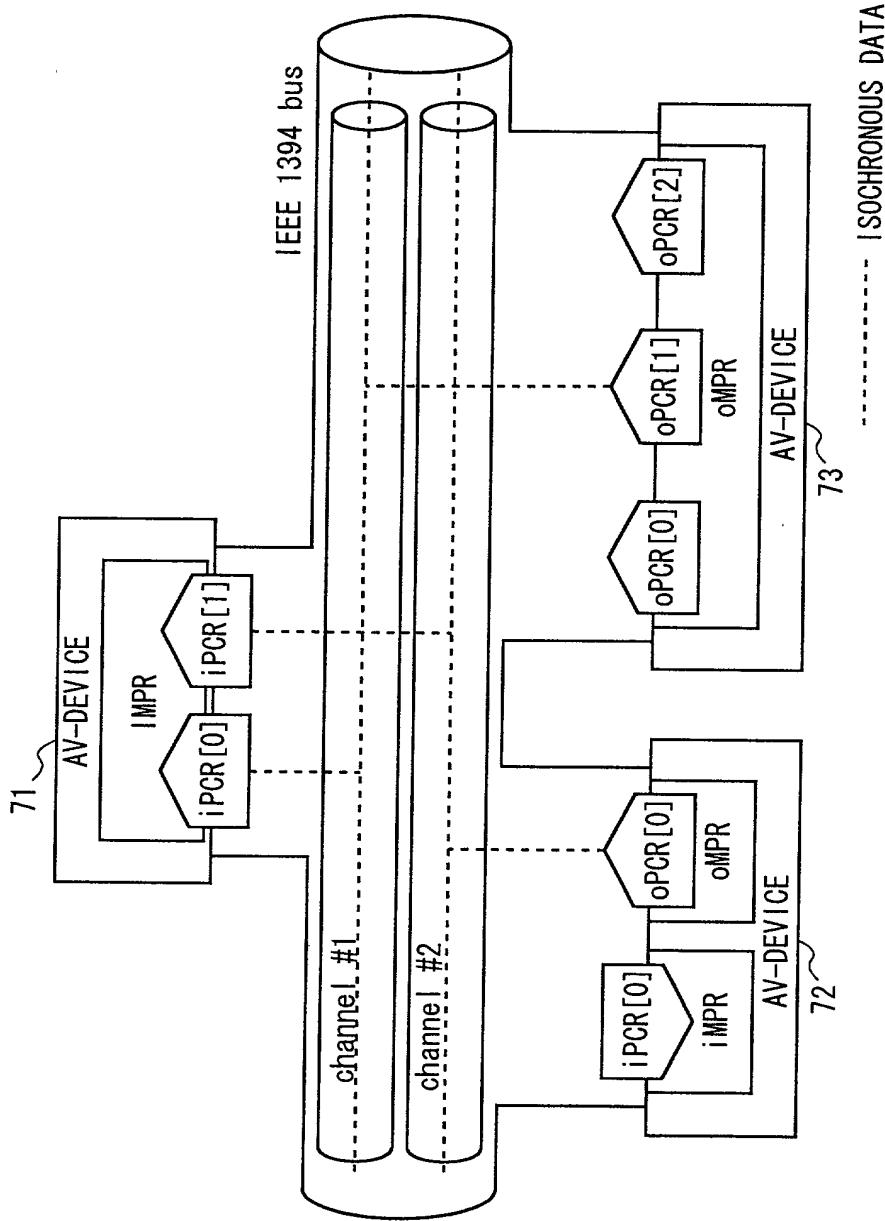


FIG. 10

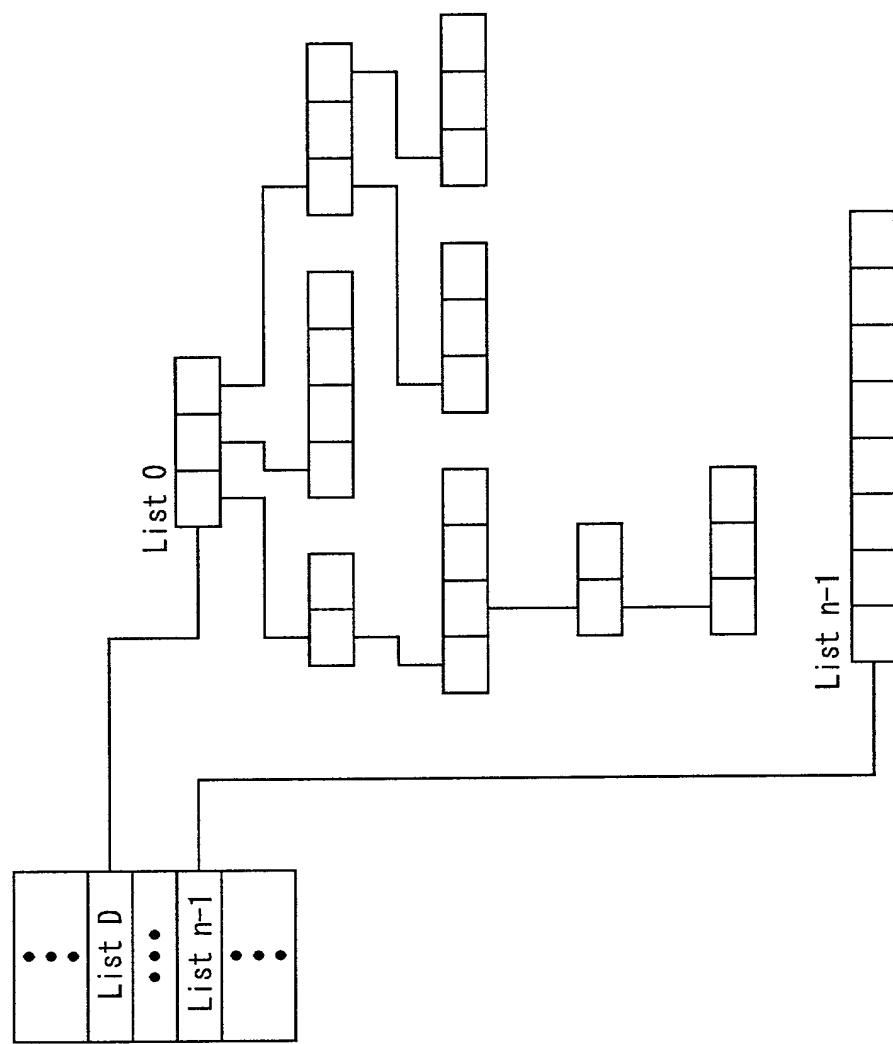


FIG. 11

generation_ID values	
generation_ID	meaning
0016	Data structures and command sets as specified in the AV/C General Specification, version 3.0
all others	reserved for future specification

FIG. 12

List ID Value Assignment Ranges	
range of values	list definition
0000 <sub>16</sub> -OFFF <sub>16</sub>	reserved
1000 <sub>16</sub> -3FFF <sub>16</sub>	subunit-type dependent
4000 <sub>16</sub> -FFFF <sub>16</sub>	reserved
1 0000 <sub>16</sub> -max list ID value	subunit-type dependent

FIG. 13

FIG. 14

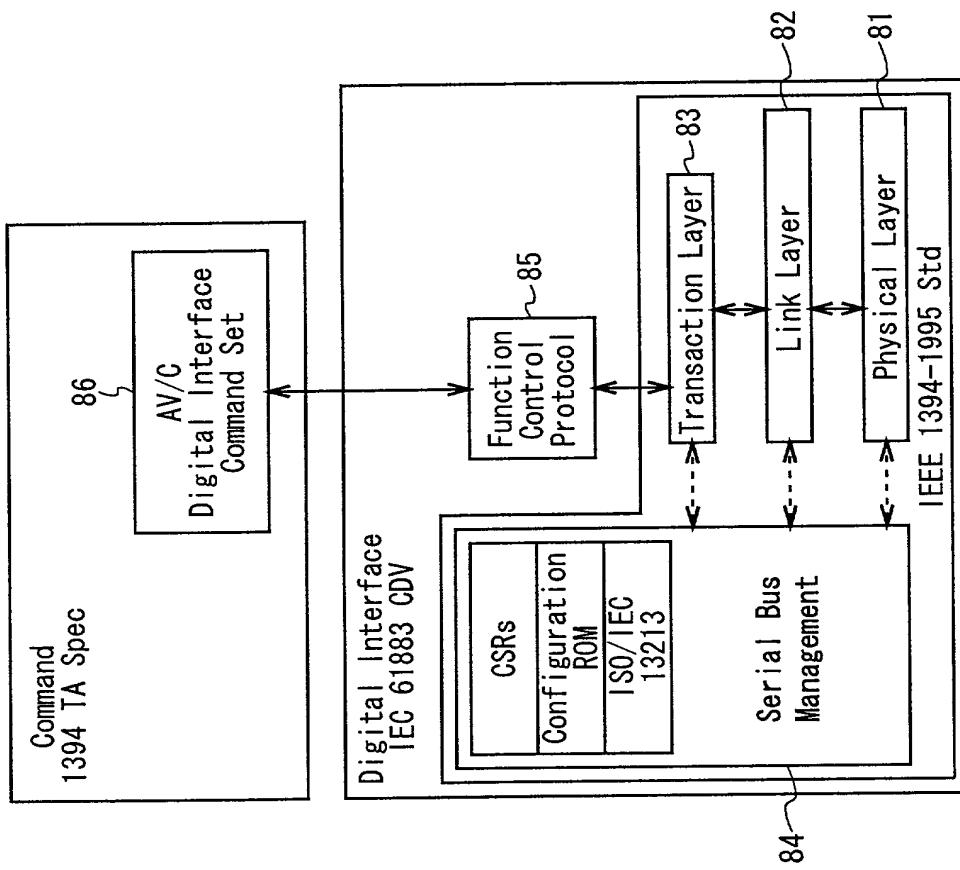
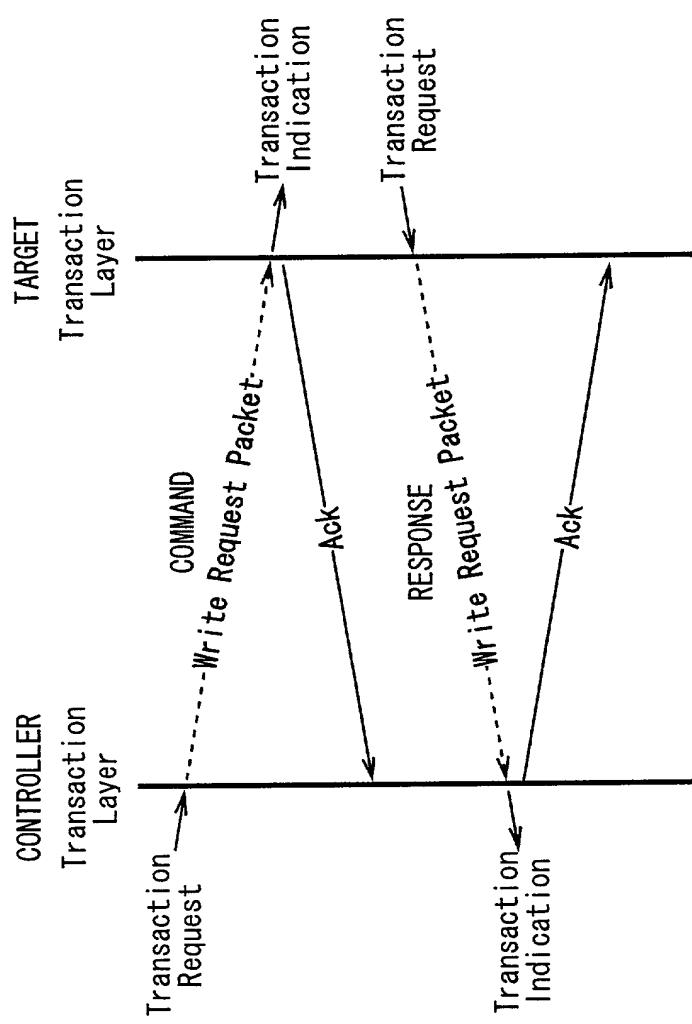


FIG. 15



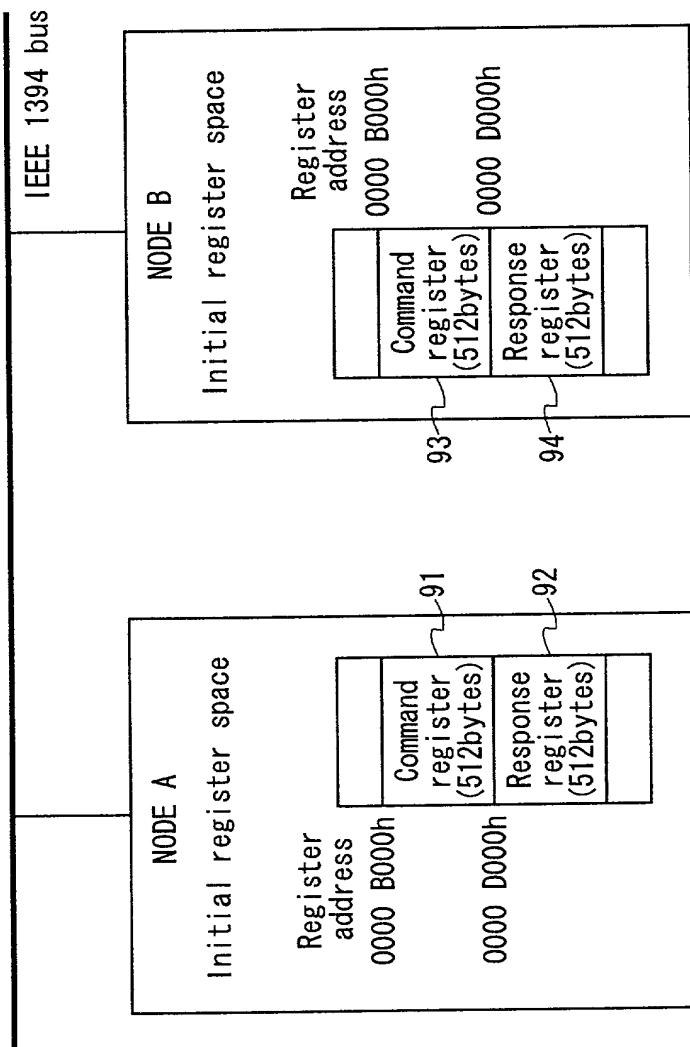


FIG. 16

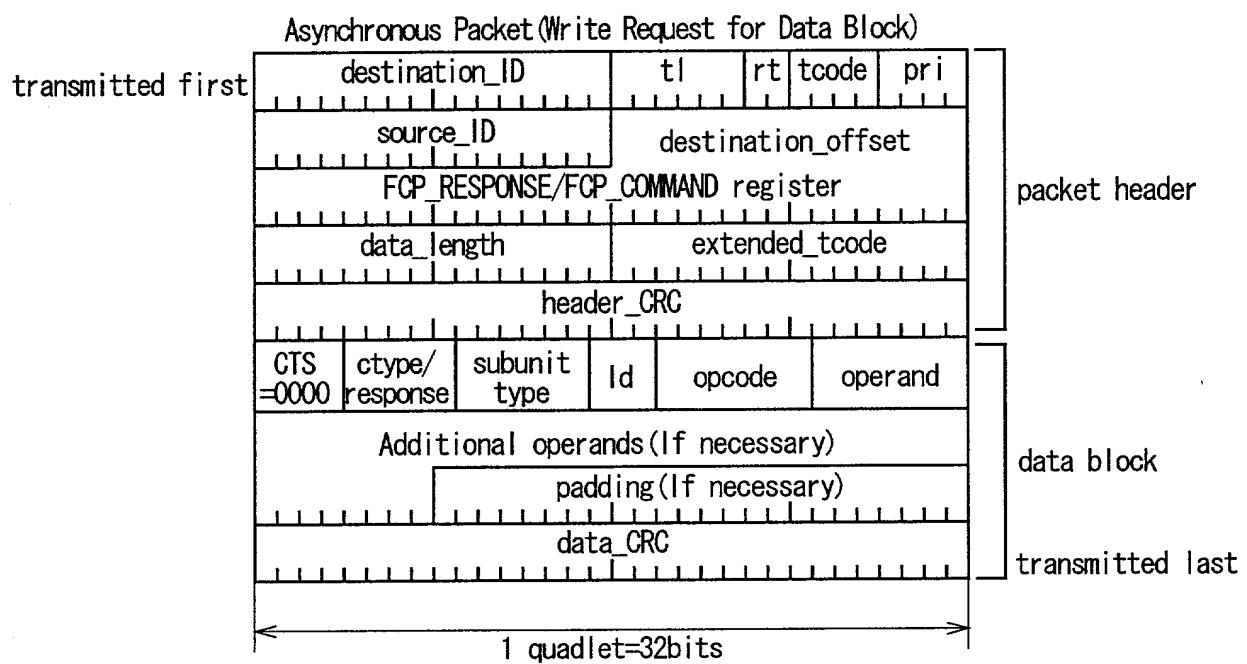


FIG. 17

ctype/response		subunit_type		opcode: Operation Code
0000	CONTROL	00010	Video monitor (reserved)	00h VENDOR-DEPENDENT
0001	STATUS	00011	Disc recorder/ Player	50h SEARCH MODE
0010	SPECIFIC INQUIRY	00100	Tape recorder/ Player	51h TIMECODE
0011	NOTIFY	00101	Tuner Video Camera (reserved)	52h ATN
0100	GENERAL INQUIRY	00111	Vendor unique (reserved)	60h OPEN MIC
0101	(reserved for future specification)		11100	61h READ MIC
0111	(reserved for future specification)		11101	62h WRITE MIC
			11110	C1h LOAD MEDIUM
			11111	C2h RECORD
				C3h PLAY
				C4h WIND
				?
Command		Response		
1000	NOT IMPLEMENTED	1000	IMPLEMENTED	
1001	ACCEPTED	1001	IMPLEMENTED	
1010	REJECTED	1010	IMPLEMENTED	
1011	IN TRANSITION	1011	IMPLEMENTED/STABLE	
1100	(reserved for future specification)		1110	CHANGED
1101	(reserved for future specification)		11110	INTERIM
1111	(reserved for future specification)			

FIG. 18A

FIG. 18B

FIG. 18C

AV/C control tape recorder id=1D0 PLAY FORWARD  
CTS=0000 subunit type=00100 id=000 opcode=C3h operand=75h

AV/C	control	tape recorder	id=1D0	PLAY	FORWARD
CTS=0000	ctypes=0000	subunit type=00100	id=000	opcode=C3h	operand=75h

FIG. 19A

AV/C	accepted	tape recorder	id=1D0	PLAY	FORWARD
CTS=0000	response =1001	subunit type=00100	id=000	opcode=C3h	operand=75h

FIG. 19B

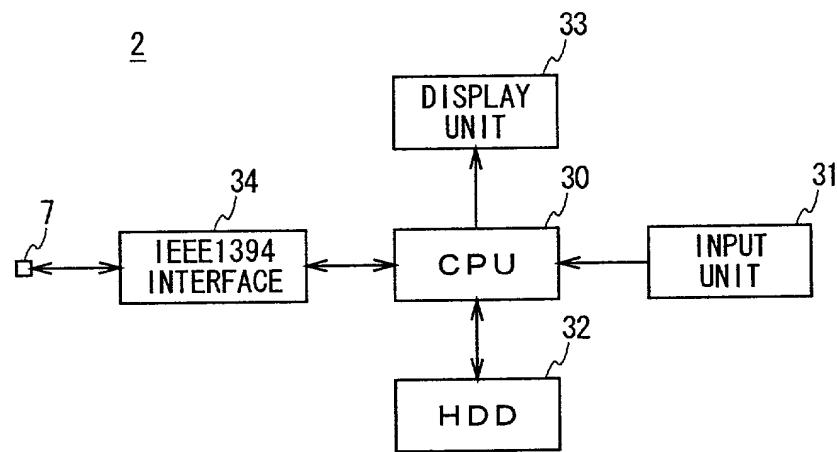


FIG. 20

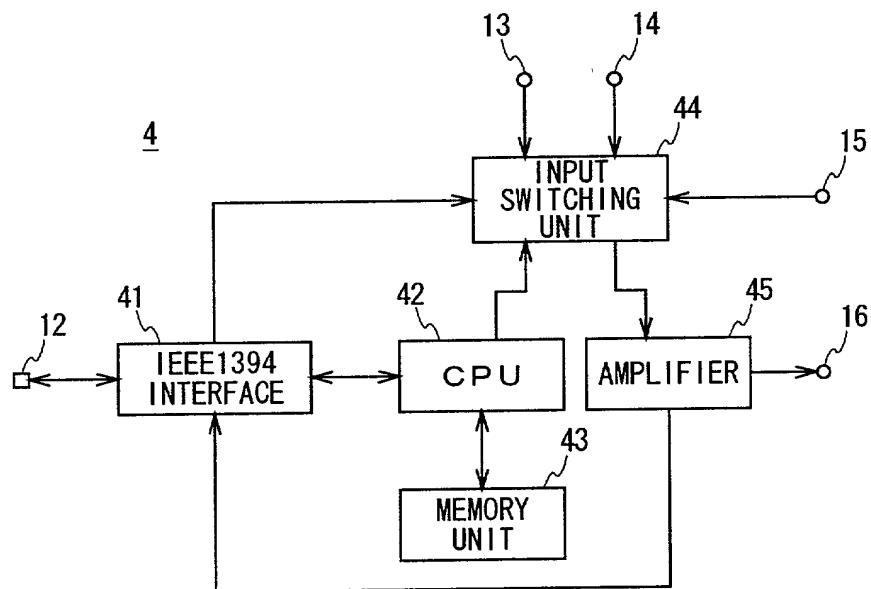


FIG. 21

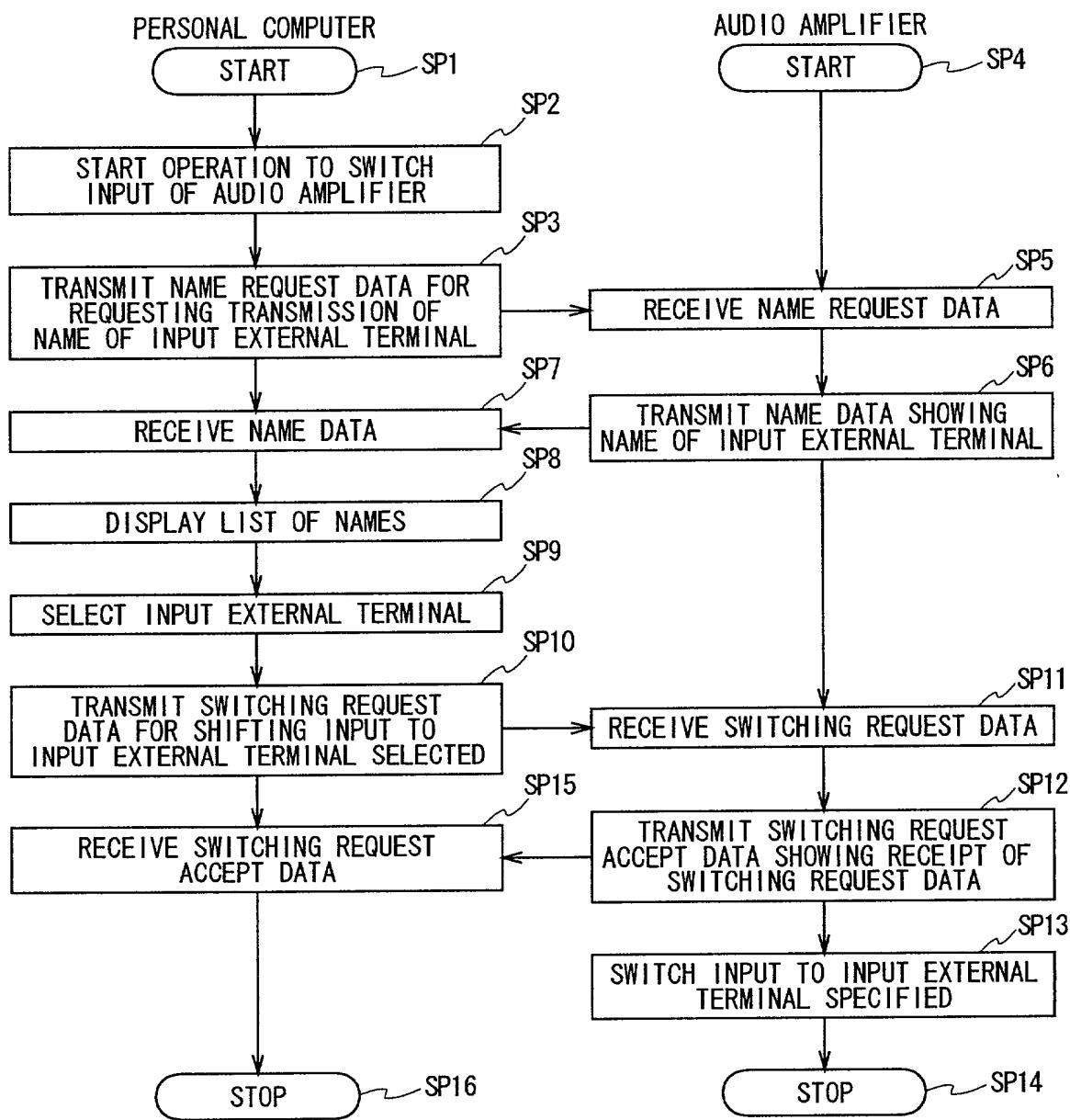


FIG. 22

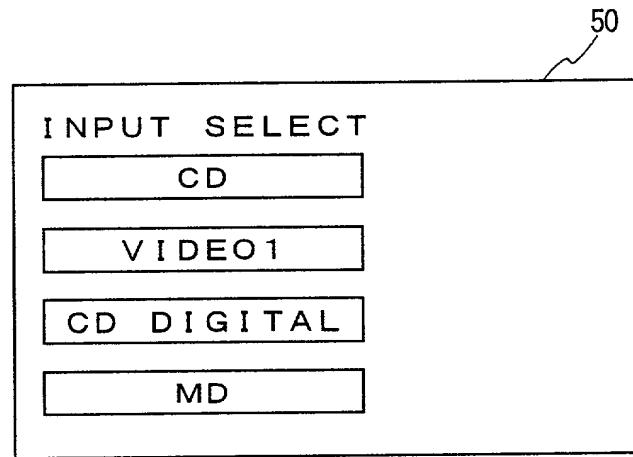


FIG. 23

FIG. 24A

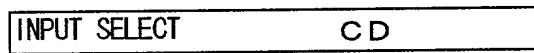


FIG. 24B

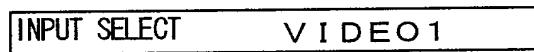


FIG. 24C

